Title (en)

ASSEMBLY TYPE STEEL PIPE CASING REINFORCED CONCRETE COMBINED JOINT AND MOUNTING METHOD

Title (de)

KOMBINIERTE VERBINDUNG AUS EINEM ZUSAMMENBAUBAREN STAHLROHRMANTEL UND BEWEHRTEM BETON UND MONTAGEVERFAHREN

Title (fr)

JOINT COMBINÉ EN BÉTON ARMÉ DE GAINE DE TUYAU EN ACIER DE TYPE À ASSEMBLAGE ET PROCÉDÉ DE MONTAGE

Publication

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Application

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Abstract (en)

[origin: EP3299528A1] The present invention relates to a prefabricated reinforced concrete-filled steel pipe sleeve joint and an installation method thereof, which belongs to the technical field of structural engineering. During the construction process of the traditional column beam, there is a welding link between the steel pipes, resulting in unstable welding quality, long construction time and other issues. The present invention provides a good solution to these problems. The present invention includes high-strength outsourcing steel pipes, reinforcement restraining plates, high-tensile reinforcements, transformation separation sleeves and an ordinary outsourcing steel pipe, wherein: two round transformation separation sleeves are respectively located at an upper end and a lower end of the ordinary outsourcing round steel pipe; one of the round transformation separation sleeves, which is located at the upper end of the ordinary outsourcing round steel pipe, is connected with one of the high-strength outsourcing round steel pipes; the other round transformation separation sleeve, which is located at the lower end of the ordinary outsourcing round steel pipe, is connected with the other high-strength outsourcing round steel pipe; the high-tensile reinforcements penetrate through the ordinary outsourcing round steel pipe; upper ends and lower ends of the high-tensile reinforcements are respectively extended to interiors of the high-strength outsourcing round steel pipes; the high-tensile reinforcements are connected with the round transformation separation sleeves; the upper ends and the lower ends of the high-tensile reinforcements are respectively connected with the round reinforcement restraining plates. The present invention is used for the construction of the column beam in the building structure.

IPC 8 full level

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CPC (source: CN EP US)

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